



BMD Simulation Support Center (BMD SSC)

<http://www.jntf.osd.mil/bmdssc>

Last Updated on 17 April 97

Mission

Improve BMDO Modeling and Simulation through standardization, centralization, and information dissemination.

Goal

Put the “Center” in “Modeling and Simulation
Center of Excellence”

What will BMD SSC have to offer?

- Web-based access to data, tools, and services
- A center of BMD system-level M&S standardization efforts
- A baseline of simulation tools to support distributed, multi-national exercises, and joint “in-house” TMD and NMD wargames
- A library database with separate, parallel networks and communications interfaces for classified and unclassified data access and exchange

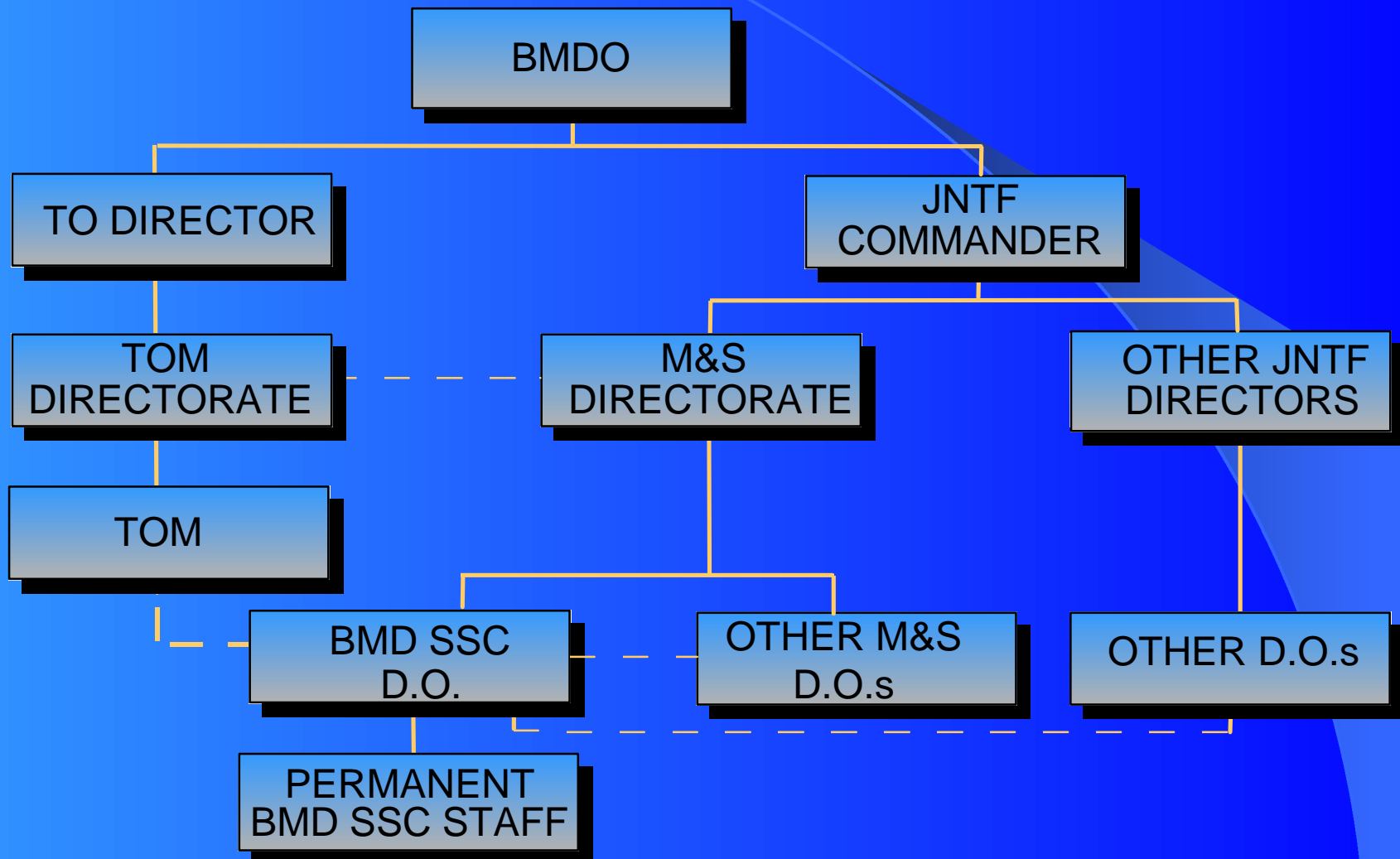
What will BMD SSC have to offer? (cont)

- Procedures, processes, and the assistance as an implementing agent for joint M&S Verification, Validation, and Accreditation (VV&A)
- Maintenance of a service-approved BMD system characteristics database
- A core capability to capture lessons learned and critical measurements in system modeling, operational exercises, wargaming, hardware-in-the-loop experiments, and live flight testing

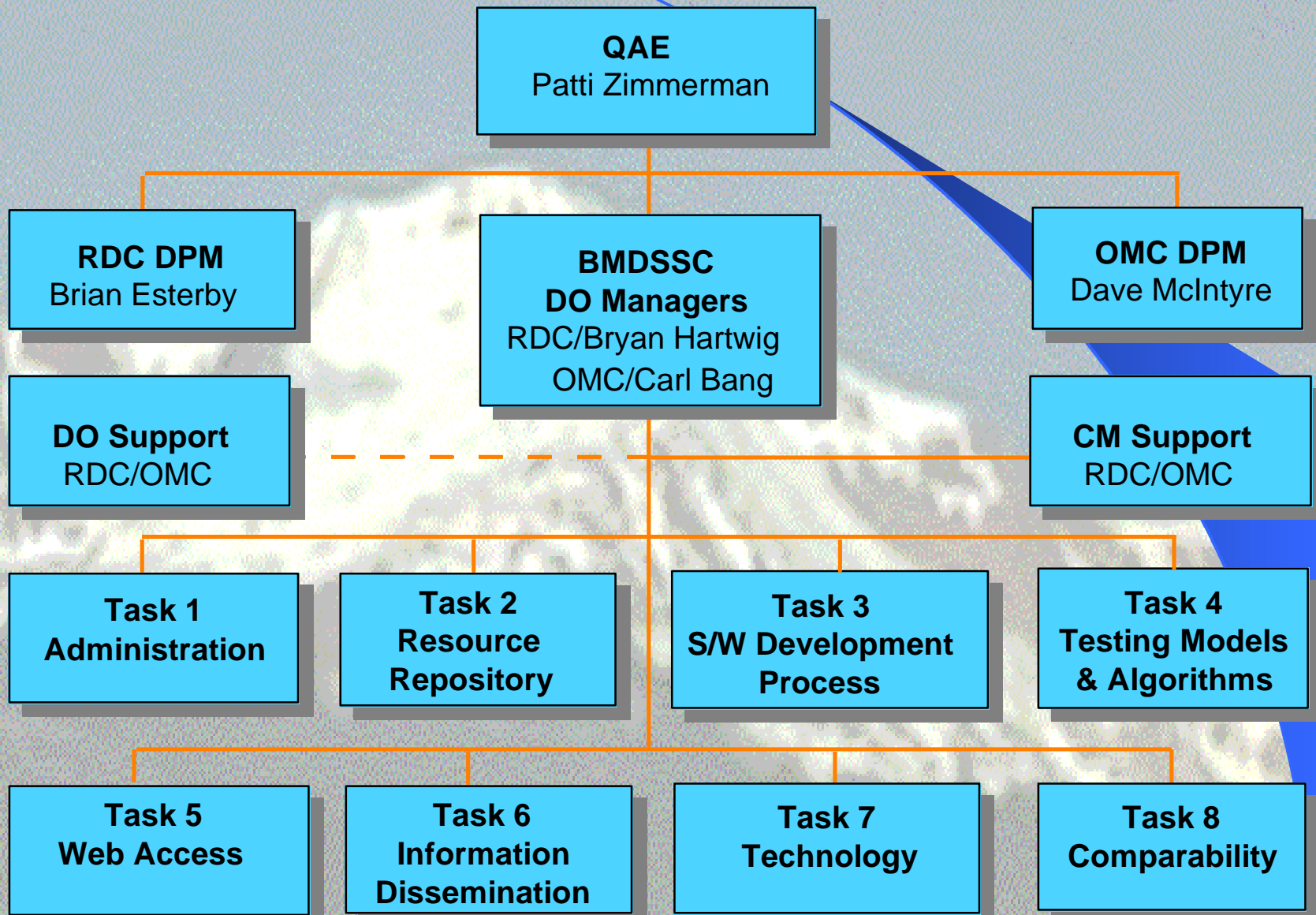
What will BMD SSC have to offer? (cont)

- Access to the complementary M&S efforts of Studies and Analysis (SAT) and to the cadre of experts in all M&S areas at the JNTF
- Maintenance for NMD data and for BMDO and non-BMDO system models (sensors, weapons, and BMC3) for NMD activities
- A central repository for integrated flight and ground test data and analysis data bases, tools, and algorithms

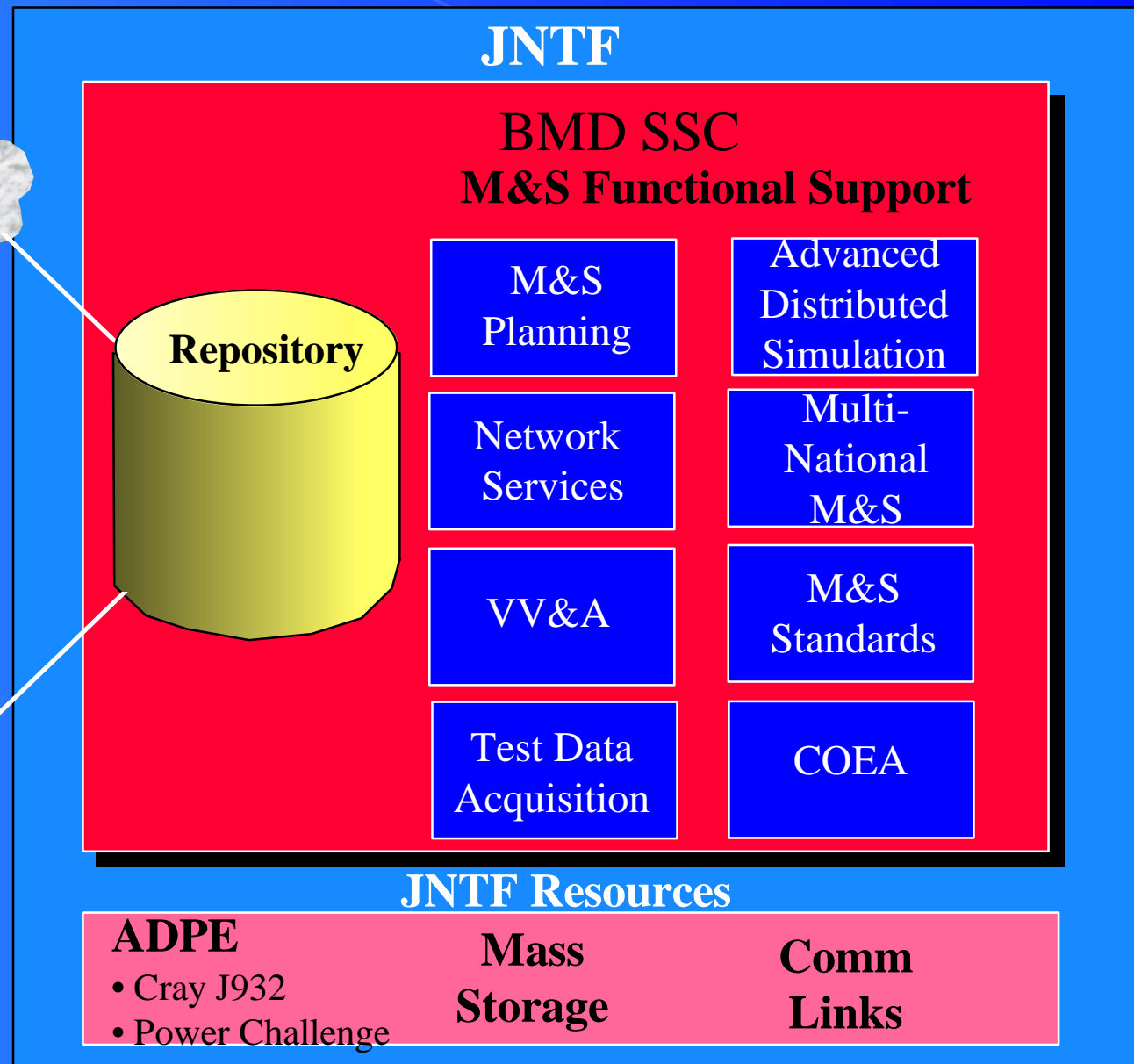
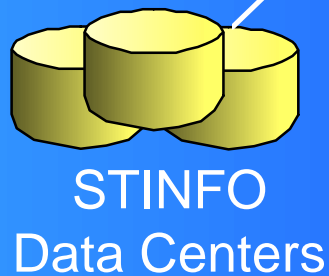
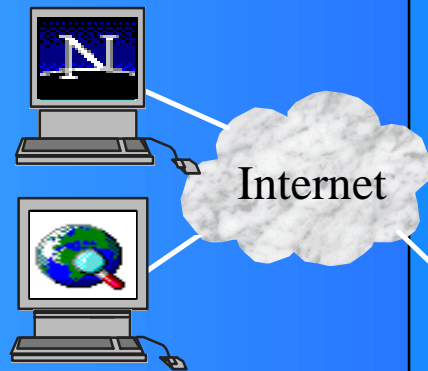
Organization



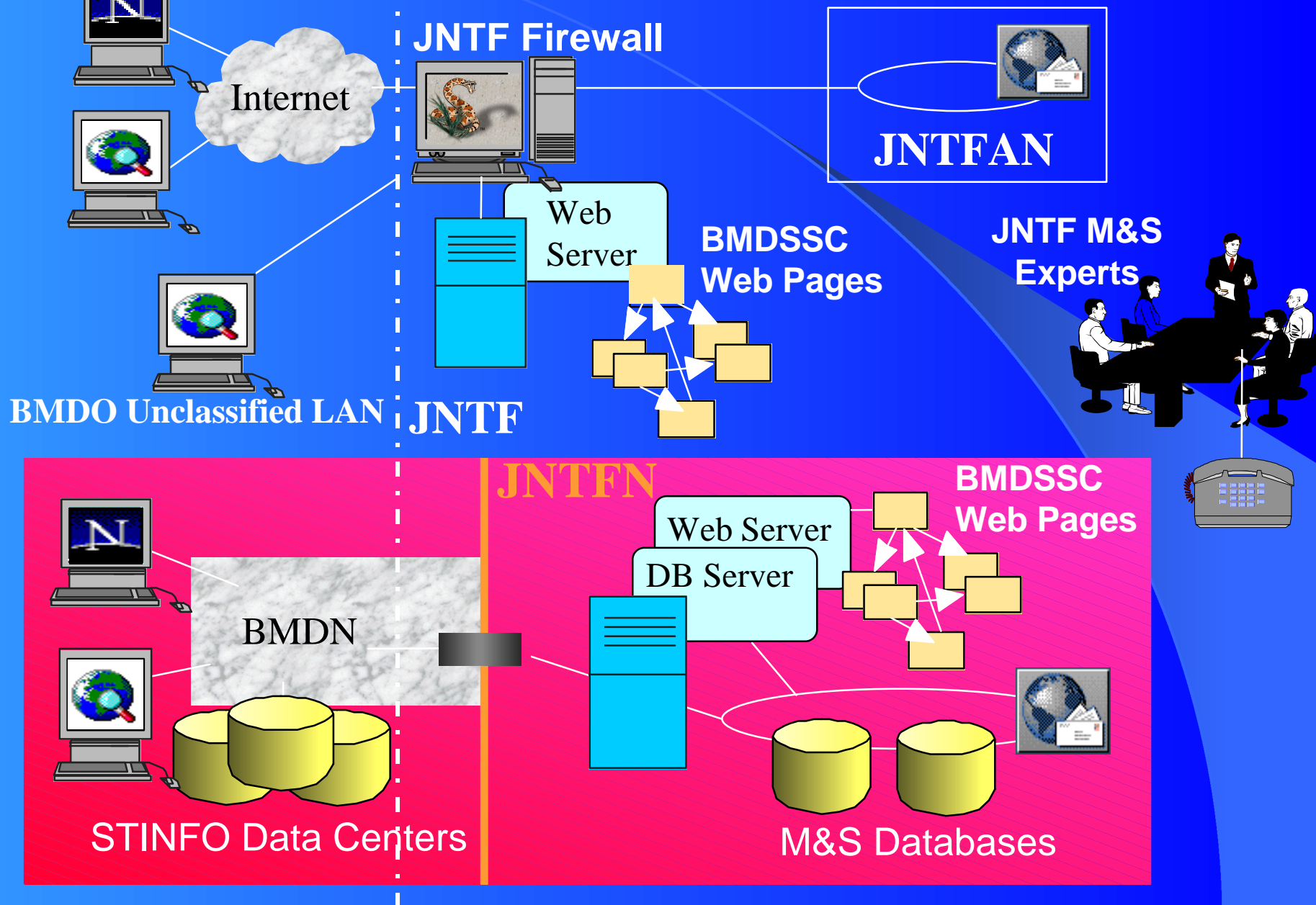
BMD SSC D.O.



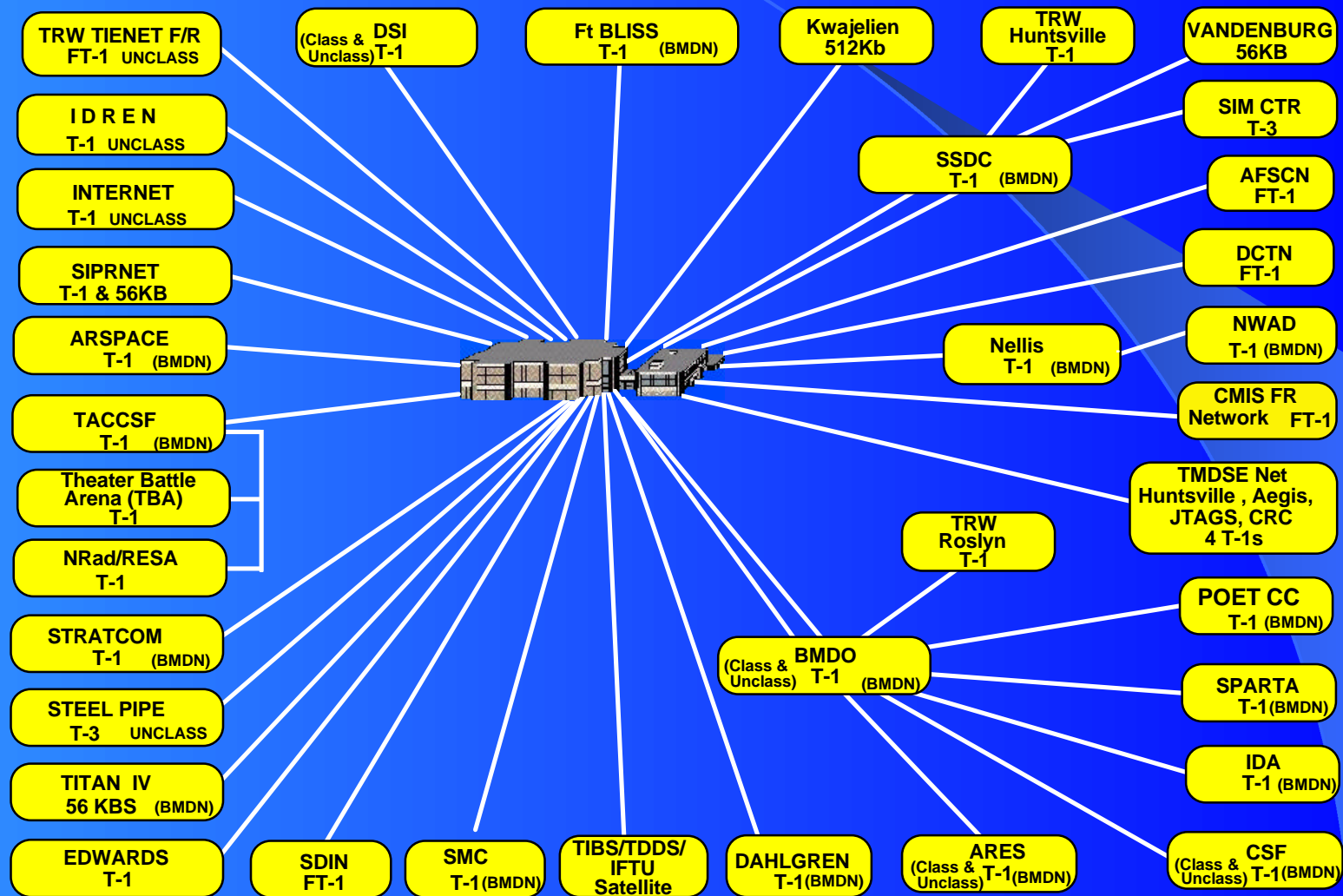
BMD SSC Concept



Architecture



JNTF External Connectivities



15Apr97

Web Layout

Repository

- BMDO Models and Simulations
- Directory of Models and Sims
- M&S Documents
- M&S Databases
- M&S Tools

Modeling & Sim Programs

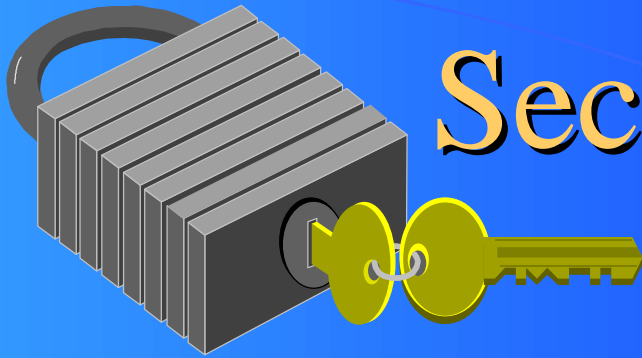
- EADSIM • NUCSS • NMD HFSS
- QRC • WG2000 • ARGUS
- CAPS • COMBT IV • JTMDP
- PSM
- EADTB
- SBIRS/WM
- BESC
- FoS TB

Simulation Services

- COEA
- VV&A
- Network Services
- AIS Security
- Cadre of Experts
- CEST
- Process Improvement
- Data Management

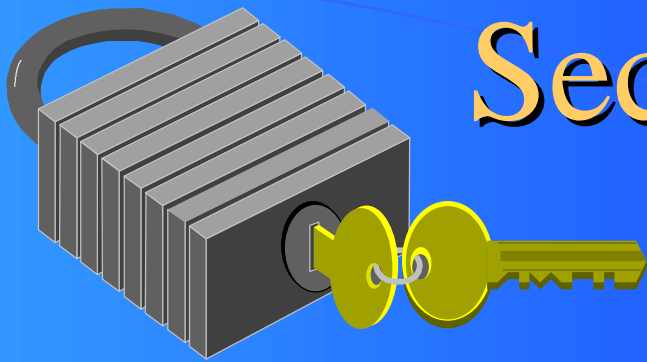


Discussion Groups Technology



Security Approach

- Security maintained via use of separate communication lines and physical separation
- Separate but parallel BMD SSC networks, one unclassified and one classified
- Classified network will accommodate majority of M&S classified resources until Multi-Level Security matures



Security Approach (cont)

- BMDO and JNTF Public Affairs Office approve release of all unclassified data before posting to the BMD SSC unclassified network
- Overall security managed via the operating environment software residing at the JNTF
- Classified network designed to limit files and data access to authorized individual or group users

Configuration Management

- BMD SSC repositories will incorporate configuration management (CM) discipline
- Developer has primary responsibility for CM of software releases
- BMD SSC web site contains the latest sim version
- BMD SSC, in concert with M&S community, will establish criteria, standards, and working environments
- CM requires carefully designed web site data repositories for usefulness and integrity
- CM data bases need to be established on-line at the JNTF or at an associated BMD organization

Value Added

- One-stop shopping for M&S tools, services, databases, results, and comparisons
- Easy access to TMD and NMD resources by authorized users in the BMD community
- Expertise from JNTF resident cadre of M&S specialists
- Standardized models available for distributed wargaming
- CM discipline imposed on M&S development

Value Added (cont)

- Rapid document retrieval from repositories via the Internet
- Rapid retrieval of standardized data from simulation databases
- Reusable tools and data eliminate costly reinvention
- Access via web page links to M&S community

Internet URL

<http://www.jntf.osd.mil/bmdssc/>